| Notice of Allowability   | Application No.  | Applicant(s)  |
|--|--|---------------|
|  | 10/661,784   | DONATE ET AL. |
|  | Examiner   | Art Unit      |
|  | Anand U. Desai, Ph.D.  | 1653          |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. |  |               |
| 1. This communication is responsive to <u>January 30, 2006</u> .   |  |               |
| 2. The allowed claim(s) is/are <u>1-13 and 40-43</u> .   |  |               |
| 3.   |  |               |
| Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material   | 6. ☐ Interview Summary<br>Paper No./Mail Da<br>08), 7. ☒ Examiner's Amenda | te            |
|  |  |               |

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## **DETAILED ACTION**

1. This office action is in response to Amendment filed on January 30, 2006. Claims 1-13 are currently pending and are under examination. Claims 14-42 have been previously withdrawn.

## Withdrawal of Rejections

- 2. The new matter rejection of claims 1-3 under 35 U.S.C. 112, first paragraph is withdrawn.
- 3. The rejection of claims 1-13 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement is withdrawn.

## **EXAMINER'S AMENDMENT**

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Shmuel Livnat on February 14, 2006.

Examiner's amendment to the claims:

- 1. (Currently amended) An isolated anti-angiogenic polypeptide that is:
  - (a) a variant of native HK-D3 (SEQ ID NO: 1) designated HK-D3v, which has the amino acid sequence SEQ ID NO: 3, or

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(b) an N-terminal addition variant of native HK-D3 (SEQ ID NO: 1), which a variant of native HK-D3 (SEQ ID NO: 1) that has an N-terminal addition and has the sequence SEQ ID NO: 2,

which polypeptide or variant has at least 20% of the activity of native HK-D3 (SEQ ID NO: 1) in inhibiting angiogenesis, endothelial cell proliferation or endothelial tube formation in an *in vitro* or *in vivo* bioassay.

- 2. (Currently amended) The isolated polypeptide of claim 1, which has the sequence SEQ ID NO: 3.
- 3. (Currently amended) A diagnostically or therapeutically labeled anti-angiogenic polypeptide comprising the [[a]] polypeptide or variant according to claim 1 to which [[(i)]] is conjugated a detectable diagnostic label or (ii) is bound a therapeutically active moiety.
  - 8. (Currently amended) An anti-angiogenic pharmaceutical composition comprising:
  - (a) an anti-angiogenic effective amount of the polypeptide or variant of claim 1, and
  - (b) a pharmaceutically acceptable carrier.
- 10. (Currently amended) A therapeutic anti-angiogenic pharmaceutical composition comprising:
  - (a) an effective amount of the polypeptide of claim 43 [[3]] to which the therapeutically active moiety is bound directly or indirectly; and
  - (b) a therapeutically acceptable carrier.
  - 14.-39. (Cancelled).

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40. (Currently amended) An affinity <u>matrix ligand useful</u> for binding to or isolating an HK-D3-binding molecule or cells expressing the binding molecule, comprising the polypeptide or variant of claim 1 immobilized to a solid support or carrier.

- 41. (Currently amended) A method for isolating a HK-D3-binding molecule from a complex mixture comprising:
  - (a) contacting the mixture with an affinity matrix ligand of claim 40;
  - (b) allowing material in the mixture to bind to the <u>matrix</u> ligand;
  - (c) removing unbound material from the matrix ligand; and
  - (d) eluting the bound HK-D3-binding molecule, thereby isolating said HK-D3-binding molecule.
- 42. (Currently amended) A method for isolating or enriching cells expressing a HK-D3-binding site or receptor from a cell mixture, comprising
  - (a) contacting the cell mixture with the affinity matrix ligand of claim 40;
  - (b) allowing any cells expressing the binding site or receptor to bind to the affinity matrix ligand;
  - (c) separating cells bound to the affinity matrix ligand from unbound cells; and
  - (d) removing the bound cells from the affinity matrix ligand,thereby isolating or enriching the HK-D3 binding site-expressing cells.
- 43. (New) A therapeutically labeled anti-angiogenic polypeptide comprising a polypeptide according to claim 1 to which is bound a therapeutically active moiety.

## Allowable Subject Matter

5. Claims 1-13, and 40-43 are allowable.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anand U. Desai, Ph.D. whose telephone number is (571) 272-0947. The examiner can normally be reached on Monday - Friday 7:00 a.m. - 3:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon P. Weber can be reached on (517) 272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 17, 2006

JON WEBER
SUPERVISORY PATENT EXAMINER

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